





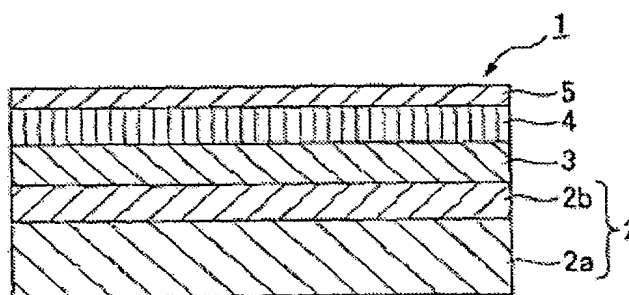


**VERTICAL MAGNETIC RECORDING MEDIUM, MAGNETIC RECORDER HAVING SAME, VERTICAL
MAGNETIC RECORDING MEDIUM MANUFACTURING METHOD, AND VERTICAL MAGNETIC
RECORDING MEDIUM MANUFACTURING APPARATUS**

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 JP2001176048
 JP11203654
 JP11185237
 JP57176531
more >>**Abstract of WO03083842**

A vertical magnetic recording medium having a low-noise characteristic compared to media of a permalloy or sendust crystalline material, comprising a high-flatness soft magnetic backing layer, and enabling recording/reproduction of information at high recording density, a magnetic recorder provided with the vertical magnetic recording medium, a vertical magnetic recording medium manufacturing method, and a vertical magnetic recording medium manufacturing apparatus are disclosed. The vertical magnetic recording medium (1) has a multilayer structure on a substrate (2), in which a soft magnetic backing layer (3), a vertical recording layer (4) of a ferromagnetic body, and a protective layer (5) are formed. The soft magnetic backing layer (3) is formed of an FeSiAlN film of a soft magnetic material. The atom% of each element of Fe, Si, Al, and N of the FeSiAlN film can be changed by changing the flow rate of N₂ gas in a mixture gas of N₂ gas and Ar gas introduced into the chamber.



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